

IN THE CLAIMS:

1. (currently amended) A compound of the general formula: $R^1R^2R^4MR^5$, wherein R^1 , R^2 and R^4 are independently an aryl, alkyl, alkenyl, epoxy or alkynyl group, wherein at least one of R^1 , R^2 and R^4 is fully or partially fluorinated, wherein M is ~~selected from group 14 of the periodic table~~ Si or Ge, and wherein R^5 is either an alkoxy group, OR^3 , where R^3 is an alkyl group having from 1 to 4 carbons, or a halogen group, X.

2. (original) The compound of claim 1, wherein X is Br or Cl.

3. (currently amended) The compound of claim 1, wherein ~~R^1 , R^2 and/or R^4~~ R^1 , R^2 and/or R^4 is fully fluorinated.

4. (currently amended) The compound of claim 3, wherein ~~R^1 , R^2 and/or R^4~~ R^1 , R^2 and/or R^4 is an alkenyl or alkynyl group.

5. (currently amended) The compound of claim 1, wherein ~~R^1 , R^2 and/or R^4~~ R^1 , R^2 and/or R^4 is an alkyl group having from 1 to 14 carbons, vinyl or allyl group.

6. (currently amended) The compound of claim 1, wherein ~~R1,~~
~~R2 and/or R4~~ R¹, R² and/or R⁴ is an alkenyl group.

7. (currently amended) The compound of claim 1, wherein ~~R1,~~
~~R2 and/or R4~~ R¹, R² and/or R⁴ is a fully fluorinated alkenyl group.

8. (currently amended) The compound of claim 1, wherein ~~R1,~~
~~R2 and/or R4~~ R¹, R² and/or R⁴ is an aryl group having one or more
rings, or an alkyl group having from 1 to 14 carbons.

9. (currently amended) The compound of claim 1, wherein ~~R1,~~
~~R2 and/or R4~~ R¹, R² and/or R⁴ is an alkynyl group.

10. (currently amended) The compound of claim 1, ~~wherein R5~~
wherein R⁵ is an alkoxy ~~groups~~ group.

11. (currently amended) The compound of claim 1, ~~wherein R5~~
wherein R⁵ is a halogen group.

12. (currently amended) The compound of claim 1, ~~wherein R1~~
wherein R¹ is a fully or partially fluorinated phenyl group

substituted with fully or partially fluorinated methyl, vinyl or ethyl groups.

13. (canceled)

14. (canceled)

15. (original) The compound of claim 1, wherein X is Cl.

16. (original) The compound of claim 1, wherein X is Br.

17. (currently amended) The compound of claim 1, ~~wherein R5~~
wherein R⁵ is methoxy.

18. (currently amended) The compound of claim 1, ~~wherein R5~~
wherein R⁵ is an ethoxy or chlorine group.

19. (currently amended) The compound of claim 1, wherein ~~R1,~~
~~R2 and/or R4~~ R¹, R² and/or R⁴ is a C2+straight chain or C3+branched chain.

20. (currently amended) The compound of claim 1, wherein ~~R₁, R₂ and/or R₄~~ R¹, R² and/or R⁴ is a perfluorinated organic group having an unsaturated double bond.

21. (currently amended) The compound of claim 1, wherein ~~R₁, R₂ and/or R₄~~ R¹, R² and/or R⁴ is an epoxy group.

22. (currently amended) The compound of claim 1, wherein ~~R₁, R₂ and/or R₄~~ R¹, R² and/or R⁴ is an acrylate group.

23. (canceled)

24. (currently amended) The compound of claim 1, wherein ~~R₁, R₂ and/or R₄~~ R¹, R² and/or R⁴ is vinyl.

25. (currently amended) The compound of claim 24, wherein ~~R₁, R₂ and/or R₄~~ R¹, R² and/or R⁴ is fully fluorinated vinyl.

26. (currently amended) The compound of claim 1, ~~wherein R₅~~ wherein R⁵ is a methoxy, ethoxy or propoxy, M is Si ~~and R₁ and R¹~~ is perfluorinated phenyl or perfluorinated vinyl.

27. (currently amended) The compound of claim 1, ~~wherein R⁵~~
wherein R⁵ is bromine or chlorine, M is Si, ~~and R¹~~ and R¹ is
perfluorinated phenyl.

28. (currently amended) The compound of claim 1, ~~wherein R⁴~~
~~and R⁵~~ wherein R⁴ and R⁵ are ethoxy, M is Si, ~~and R¹~~ and R¹ is
perfluorinated phenyl, or perfluorinated alkyl having from 2 to 8
carbons.

29. (currently amended) The compound of claim 28, wherein ~~R¹,
R² and/or R⁴~~ R¹, R² and/or R⁴ is perfluorinated ethyl or propyl.

30. (currently amended) The compound of claim 1, ~~wherein OR³~~
wherein OR³ is methoxy or ethoxy.

31. (currently amended) The compound of claim 1, ~~wherein OR³~~
wherein OR³ is ethoxy.

32. (currently amended) The compound of claim 1, wherein ~~R¹,
R² and/or R⁴~~ R¹, R² and/or R⁴ is a fully or partially fluorinated
single ring or polycyclic aromatic substituent.

33. (currently amended) The compound of claim 32, wherein ~~R¹~~
~~and/or R⁴~~ R¹ and/or R⁴ has one or two rings.

34. (original) The compound of claim 1, wherein M is Si.

35. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is methyl.

36. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is ethyl.

37. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is propyl.

38. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is an alkenyl group ~~and R⁴~~ and R⁴ is an aryl group.

39. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is an epoxy group ~~and R⁴~~ and R⁴ is an aryl group.

40. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is an alkynyl group ~~and R⁴~~ and R⁴ is an aryl group.

41. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ has an unsaturated double bond, ~~and R⁴~~ and R⁴ has a ring
structure.

42. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is an alkenyl group ~~and R⁴~~ and R⁴ is an alkyl group.

43. (currently amended) The compound of claim 42, ~~wherein R¹~~
wherein R¹ is an alkenyl group ~~and R⁴~~ and R⁴ is an alkyl group
having 4 or more carbons.

44. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is an epoxy group ~~and R⁴~~ and R⁴ is an alkyl group.

45. (currently amended) The compound of claim 44, ~~wherein R⁴~~
wherein R⁴ is an alkyl group having 4 or more carbons.

46. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is an alkynyl group ~~and R⁴~~ and R⁴ is an alkyl group.

47. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is a vinyl group ~~and R⁴~~ and R⁴ is an aryl group.

48. (currently amended) The compound of claim 47, ~~wherein R⁴~~
wherein R⁴ is a phenyl group.

49. (original) The compound of claim 48, wherein the
phenyl group is a substituted phenyl group.

50. (currently amended) The compound of claim 1, ~~wherein R¹~~
wherein R¹ is a methyl group ~~and R⁴~~ and R⁴ is a vinyl or epoxy
group.

51. (currently amended) The compound of claim 1, wherein ~~both~~
~~R¹, R² and R⁴ are~~ each of R¹, R² and R⁴ is fully fluorinated.

52. (currently amended) The compound of claim 1, wherein one
of ~~R¹, R² and R⁴~~ R¹, R² and R⁴ is fully fluorinated and the other is
partially fluorinated.

53. (original) The compound of claim 52, wherein the
partially fluorinated group is an alkyl group having four or more
carbon atoms, and wherein the fully fluorinated group is an alkenyl
or aryl group.

54. (canceled)

55. (canceled)

56. (canceled)

57. (currently amended) The compound of claim 1, wherein ~~R¹~~ and ~~R²~~ R¹ and R² are the same, but different ~~from R⁴~~ from R⁴.

58. (currently amended) The compound of claim 1, wherein ~~R¹~~, ~~R²~~ and ~~R⁴~~ R¹, R² and R⁴ are the same.

59. (currently amended) The compound of claim 1, wherein ~~R¹~~, ~~R²~~ and ~~R⁴~~ R¹, R² and R⁴ are each different from each other.

60. (currently amended) A method for making the compound R¹R²R⁴MR⁵ of claim 1, comprising: providing a compound ~~R¹MOR³X_{q-3-q}~~ R¹MOR³X_{q-3-q} where M is ~~an element selected from group 14 of the periodic table~~ Si or Ge, OR³ is an alkoxy group having 1 to 4 carbons, X is a halogen and q is 2 or 3; reacting the compound ~~R¹MOR³X_{q-3-q}~~ R¹MOR³X_{q-3-q} with either a) Mg and ~~R²X²~~ R²X² where ~~X²~~ X² is Cl, Br or I and ~~R¹~~ and R² is an alkyl, alkenyl, aryl, epoxy

or alkynyl group, and $q=3$, or b) with ~~R^2M^1 where R^2~~ where R^2 is an alkyl, alkenyl, aryl, epoxy or alkynyl group ~~and M^1~~ and M^1 is an element from group 1 of the periodic table, and $q=2$ or 3 ; so as to form ~~$R^1R^2MOR^3$, $R^1R^2MOR^3$~~ ; reacting ~~R^1MOR^3 , $R^1R^2MOR^3$~~ with a) Mg ~~and R^4X^2 and R^4X^2 where X^2 where X^2 is Cl, Br or I~~ and R^4 and R^4 is an alkyl, alkenyl, aryl, epoxy or alkynyl group, or b) ~~with R^4M^1~~ with R^4M^1 ~~where R^4~~ where R^4 is an alkyl, alkenyl, aryl, epoxy or alkynyl group and ~~wherein R^4~~ wherein R^4 is fully or partially fluorinated ~~and M^1~~ and M^1 is an element from group 1 of the periodic table, or c) with a halogen or halogen compound followed by reacting ~~with R^4M^1~~ with R^4M^1 ~~where R^2~~ where R^4 is an alkyl, alkenyl, aryl, epoxy or alkynyl group, ~~wherein M^1~~ wherein M^1 is an element from group 1 of the periodic table; so as to form ~~$R^1R^2R^4MOR^3$, $R^1R^2R^4MOR^3$~~ ; and wherein if R^5 is a halogen, reacting $R^1R^2R^4MOR^3_q$ with a halogen or halogen compound.

61. (currently amended) A method for preparing a polymer using the compound of claim 1, comprising: providing the compound of claim 1; hydrolyzing the compound of claim 1 in the presence of ~~H_2O or D_2O~~ H_2O or D_2O with ~~another compound; so as to form a compound~~ a compound which together with the compound of claim 1 forms a polymer with an -M-O-M-O- backbone with at least the R^1 , R^2

and R4 groups of the compound of claim 1 bound thereto and having a weight average molecular weight of from 500 to 10,000.

62. (currently amended) The method of claim 61, wherein the compound has a weight average molecular weight of from 1500 to 5000.